

OUTLOOK

A WEEKLY NEWSPAPER FOR FACULTY AND STAFF AT THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

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Outstanding Campus Publications Recognized

Nearly 300 publications are produced on the College Park campus every year. On March 21, at an awards ceremony held at Stamp Union, 30 of these publications—newsletters, brochures and posters—were recognized for their excellence.

A special President's Award, presented by Vice President Kathryn Costello, was given to the Office of Undergraduate Studies for its booklet, "Keeping the Promise: A Status Report on Undergraduate Education." In making the award, Costello cited the booklet for being "the best expression of the quality and aspirations of the College Park campus."

The first on-campus awards event of its kind, the competition

drew 163 entries, which were judged by five non-university affiliated experts for content, design and layout, typography, use of photos, cost effectiveness, and clarity of university identity.

Under the overall direction of Judith Bair, director of Creative Services, the combined awards ceremony and workshop was presented by the university's Publications Council and the Office of Creative Services.

Winners in the competition were:
Posters: "Propaganda and Visual Truth" (Dept. of Design, College of Arts and Humanities); "Inauguration" (Office of the President); "All Niter 1990" (Stamp Student Union);
External Newsletters: *Newsflow* (College of Engineering); *Echo* (Col-



Kathryn Costello (right) presents the President's Award to Susan Koonce (left) and Kathryn Mohrman.

lege of Human Ecology); *Terrapin Parent* (Office of Student Affairs);
Internal Newsletters: *Outlook* (Office of Public Information); *Commuter Connection* (Office of Commuter Affairs); *Community Living* (Resident Life and Dining Services);
Miscellaneous: Inaugural Invitation

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University to Host Resource Fair on Eldercaregiving

By the year 2000 it is projected that 35 million people (one out of every five Americans) will be 65 years of age or older. Contrary to popular belief, most of the long-term health and social care needed by dependent persons is provided by family members.

The university's Eldercare Committee is hosting a resource fair to address the issues of caregiving on April 15 from 11 a.m. to 2 p.m. in the Colony Ballroom of the Stamp Student Union.

Michael Creedon, a nationally-known spokesperson for eldercare and caregiving issues, will present the keynote address. Creedon, who is the president of the Creedon Group and former director of corporate programs at the National Council on Aging, will address resources and support systems. Representatives from surrounding counties will be on hand to answer questions. Free resource materials will be available, as well.

"Many employees are finding themselves thrust into the caregiving role for elderly parents or relatives, as well as managing roles between career and family," says Helen O'Ferrall, chair of the Eldercare Committee, which was established in 1987 as a subcommittee of

the President's Commission on Women's Affairs.

According to O'Ferrall, approximately 20 percent of employees on the College Park campus are caregivers.

"The percentage of caregivers and the demands on them will increase greatly in the future as the population ages and federal legislation eliminates more programs," says O'Ferrall.

Since its formation in 1987, the Eldercare Committee has worked together on a number of activities designed to raise the campus community's awareness of eldercare and caregiving issues, including a prior resource fair, topical seminars, participation in local and national workshops and publication of a "Caregiver's Guide" for the employees of College Park, UMUC, and System Administration.

"This is not a woman's issue only," says O'Ferrall. "Everyone has parents or relatives who are aging. We also need to know about aging and services for ourselves to better equip our children for the future."

The resource fair is free and open to the public. For more information call 405-1210.

Lisa Gregory



Helen O'Ferrall

Kirwan to Discuss APAC Recommendations at Forum

President William E. Kirwan is inviting the campus community to attend a campus-wide forum to take place on Tuesday, April 9 from 3 to 4:30 p.m. in Tawes Theatre.

Kirwan has called the meeting to review next year's budget, discuss

recommendations of the Academic Planning Advisory Committee (APAC) on possible program elimination, and answer questions about the strategic planning process.

Campus Senate to Consider Governance Issues

The Campus Senate will consider endorsement of the *Report of the Task Forces on Campus Governance* at its meeting on April 11 at 3:30 p.m. in Reckord Armory. Other items on the agenda include an address by Shaila Aery, Secretary of the Maryland Higher Education Commission (MHEC), action on an amendment to the Code of Academic Integrity and information reports on the use of SATs in admissions and the question of D grades in majors. Call the Senate office, 405-5805, for information.

Heisler, Immigration Expert, Wins Fulbright for European Research

Martin O. Heisler, associate professor of government and politics, has been selected as a Western European Regional Fulbright Fellow for field research in Germany and Britain. An authority on immigration policies and laws and international migration patterns, Heisler also has been awarded a fellowship from the Centre National de la Recherche Scientifique of France.

Both fellowships will be used for research on his cross-national comparative research project, "The Institutional and Normative Construction of Identity" in Germany,

France, Great Britain and Belgium.

The research, dealing with ethnic minorities, immigrants and anti-immigrant movements, will be conducted while Heisler is on sabbatical leave in 1991-92. His wife, Barbara Schmitter Heisler, associate professor of sociology and anthropology at Gettysburg College, is collaborating with him on the project.

During his sabbatical, he also will be a Fellow at the Department of Politics and International Studies and the Centre for Ethnic and Racial Studies at the University of

Warwick in Britain, and associated with the Free University of Berlin.

Heisler recently has been featured in stories in the *Chronicle of Higher Education* and *The New York Times*, and on broadcasts by Washington public television station WHMM and the Voice of America.

He edited the November issue of *The Annals of the American Academy of Political and Social Science* which carried 15 essays examining a variety of issues dealing with the Nordic region of Western Europe.

Campus Publications Honored for Excellence



Jon Rood announces some of the award winners.

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Packet (Office of Special Events); A Celebrity Evening Packet (Afro-American Studies Program); Physical Plant Information Packet (Department of Physical Plant); **Brochures—One and Two Color:** Graduate Recruitment Brochure (Department of Human Development); Dingman Center Brochure (College of Business and Manage-

ment); 15th Anniversary Season (University Community Concerts); Feminist Studies Brochure (Women's Studies Program); **Brochures—Low Cost Design:** African Accents '89 (University Community Concerts, College of Arts and Humanities, Stamp Student Union, Nyumburu Cultural Center, Maryland Gospel Choir); **Brochures—Three and Four Color:** Nyumburu Cultural Center Brochure (Nyumburu Cultural Center, Division of Student Affairs); "Choosing Excellence" Brochure (Office of Undergraduate Admissions); "Wanderlust" Brochure (Stamp Student Union); **Recruitment Brochures:** "Beyond Shakespeare..." (Office of Undergraduate Admissions and Division of Student Affairs); Undergraduate Recruitment Packet (College of Life Sciences); Graduate Recruitment Brochure (College of Journalism); **Booklets—One and Two Color:** "Keeping the Promise: A Status Report on Undergraduate Educa-

tion" (Office of Undergraduate Studies); Maryland Handel Festival Brochure (Department of Music, College of Arts and Humanities); **Booklets—Four Color Cover:** Commencement Program, Dec. 1990 (Office of Special Events); Annual Report 1990 (Department of Computer Science); Center for Agricultural Biotechnology (Maryland Biotechnology Institute); **Booklets—Four Color:** College Park Alumni Magazine (Office of Alumni Programs); Undergraduate Viewbook/Application (Office of Undergraduate Admissions); Annual Report 1988-89 (Center for Automation Research); The Physics Program (Department of Physics and Astronomy); **University Printing Award:** *Outlook* (Office of Public Information); and Faculty/Staff Sampler 1990-91 (University Community Concerts).

Conference on Spanish Economy Set

The university's Industrial Relations and Labor Studies Center (IRLS) and the Universidad Carlos III de Madrid, Spain, will host a conference on "The Spanish Economy and Labor Market: Challenges Beyond 1993," May 13-16 at the Washington Vista Hotel in Washington, D.C.

The conference is designed to provide information on developments and projected problems in Spain resulting from changes in the European Community and to allow Spanish and American labor and management leaders to learn about one another's practices. There will be simultaneous translation in Spanish and English.

Conference presenters will include government, labor and management experts from Spain and specialists from American institutions such as Ford, Citibank S.A., and Arthur Anderson.

Activities include large plenary sessions May 14 and 16 and specialized workshops May 15.

The conference is funded by College Park, the German Marshall Fund of the United States, the US/ Spanish Joint Committee on Cultural and Educational Affairs, and the Spanish Government. It is being supported by the Spain-U.S. Chamber of Commerce and the Tinker Foundation.

The cost is \$450 and includes lunches, receptions and transportation between meeting sites in Washington. An academic seminar for scholars concerned with social science research on Spain will be held May 17 at the Smithsonian Institute's Woodrow Wilson Center for International Studies. This seminar costs \$35.

For more information or to register, contact Paul Weinstein or Sandra Carcamo at (301) 405-4535.

OUTLOOK

Outlook is the weekly faculty-staff newspaper serving the College Park campus community.

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Letters to the editor, story suggestions, campus information & calendar items are welcome. Please submit all material at least three weeks before the Monday of publication. Send it to Roz Hiebert, Editor *Outlook*, 2101 Turner Building, through campus mail or to University of Maryland, College Park, MD 20742. Our telephone number is (301) 405-4621. Electronic mail address is outlook@pres.umd.edu. Fax number is (301) 314-9344.

UNIVERSITY OF MARYLAND AT COLLEGE PARK

Sharing Experiences

Hulda Romero, right, is pictured with students from Milton Somers Middle School in Charles County during a visit to the university as part of a mentoring program involving university students and middle school students in Charles County. Romero is the student coordinator for this program working out of the Office of Minority Student Education at College Park.



NEWS

Plan Calls for Reduced Electrical Consumption

Whether we have a normal—or hotter than normal—summer will take on unusual significance on campus this spring and summer. The reason?

A plan to reduce total electrical consumption has been developed to compensate for a \$1.3 million cut in this year's fuel and utilities budget, which was reduced from \$16.3 million to \$15.1 million. The bottom line is that at certain times during the summer, buildings may have less air conditioning than in the past, depending on the weather, time of day, and perhaps even type of building.

"The primary component of our total fuel and utility expense is electrical consumption," says Director of Physical Plant Frank Brewer. "If we have average temperatures throughout April, May and June, we'll be fine, but if we don't, we'll be in trouble." As a first step to keep within the budget, the university will consider delaying air conditioning turn-on "until such time as we are sure we can afford to turn it on," says Brewer. In the past, the normal turn-on date has ranged from mid-April to the end of the first week of May, with two or three weeks needed to complete the process. The plan calls for the campus to monitor overall electrical consumption in April to see how much is being spent on electricity, and if necessary, delay the turn-on date for two or three weeks beyond the normal date.

"We won't delay turning on air conditioning in fixed-window buildings because folks in these buildings can't open a window to ventilate their offices," says Brewer.

Eight or ten buildings fit this category, including Marie Mount, Art-Soc, Bio Chemistry, Architecture, and McKeldin's new library addition. In addition, several other buildings have had particular problems historically where conditions exist that cause some areas to become unbearably hot if not cooled. Lee is one of these buildings, says Brewer.

Two other cost cutting measures also are on the drawing boards. The first is "load shedding," where air conditioning equipment is cycled on and off to save money while trying to maintain elevated but bearable interior building temperatures. The cycles vary—from a possible hour on and an hour off to perhaps 15 minute cycles, the objective being to conserve as much energy as possible while allowing a building space to be bearable. This "load shedding" system has been used in previous summers, says Brewer.

"Peak shaving," not done on campus since summer 1989, will be another cost cutting measure. Electrical rates are built on two factors, the amount we consume based upon the time of day and the peak demand each month. The university has three billing periods for electricity: low, medium and high, the highest being in the afternoon and the low in the early hours of the morning. The rate during our high period is three times the amount of our low period. The utility company looks at total campus usage of electricity and finds the highest peak instantaneous demand at some point during the month. The higher the peak, the higher our rate for the month. Those willing to control

their peak demands get a break.

Therefore, ironically, what the university does on the hottest days when air conditioning is most in demand, is to shut it down temporarily. Typically, this is done three to five times per month for between two and six hours, says Brewer, who indicates that the university has done this in the past, and to some extent, people haven't been aware of it, or, in some isolated cases, have complained that their air conditioning wasn't working well.

The university controls all of these functions automatically through the CCMS—Central Control and Monitoring System. All major buildings are connected, and the process is done by computer.

"We know that buildings vary a great deal from one to another in their ability to be comfortable. We want to be made aware of those variations. Though we won't be able to respond to every single situation, we will try to be as responsive as we can. We will encourage department heads to call me directly if they have an unusual situation that needs special consideration," says Brewer.

What will happen after July 1 when the new fiscal year begins? Brewer says it is not clear yet, but it may be necessary to continue these cost containment policies into '92.

Roz Hiebert

Four Students Nominated for Goldwater Scholarships

Four College Park students have been nominated for the Barry M. Goldwater Scholarship in Science and Mathematics. This merit-based national scholarship is awarded to outstanding sophomores who demonstrate outstanding potential and an intent to pursue careers in mathematics and the natural sciences.

The four nominees were chosen by the university's Goldwater Scholarship Nomination Committee, chaired by William S. Harwood, director of Undergraduate Programs in the Department of Chemistry and Biochemistry. The nominees are: Basil Eldadah, Audrey Fernandes, Rajiv Goel and Hiedi Hieb.

Eldadah, a general biological sciences major, is at work on two research projects. One, with Herbert Levitan, professor of zoology, involves writing a computer program to teach research

students how to use actively the scientific method. Another project, conducted at the National Institutes of Health (NIH), is developing a procedure to detect viral genomic sequences in cell cultures and tissue sections using the Polymerase Chain Reaction. Eldadah plans to seek an M.D./Ph.D.

Fernandes, a biochemistry major, is conducting research at the National Cancer Institute and NIH. Her research involves the characterization of uromodulin binding proteins. She is co-authoring a paper on this work and plans to pursue a Ph.D.

Goel, a double major in general biological sciences and economics, is interested in medical research involving the use of anti-sense DNA as an effective anti-cancer agent. He is looking into the possibility of doing work related to this at NIH. Goel also plans to pursue an M.D./Ph.D.

Hieb, a biochemistry major, is involved with Sarah Woodson, assistant professor of chemistry, in a research project investigating the catalytic activity of RNA. Hieb, a native of Caputa, S.D. transferred from the South Dakota School of Mines and Technology to pursue opportunities at College Park for conducting biochemical and medicinal research. She would like eventually to do graduate work in the study of brain chemistry.

The Goldwater Scholarship is given to students in any field of science or mathematics and covers eligible expenses for tuition, fees, books, and room and board, up to a maximum of \$7,000 annually. Recipients are eligible for two years of support. The awards will be announced in late April or early May.

Customer Service Training Program Set

Between 150 and 200 student staff from local colleges and universities including College Park are expected to attend a student staff conference sponsored by Campus Guest Services April 13. Entitled "Do the Right Thing," the customer service training program will feature Dennis Mannering as keynote speaker. Mannering, author of *Attitudes are Contagious...Are Yours Worth Catching*, will discuss personal responsibility and accountability for the quality of staff performance. The day-long conference is designed to provide student staffs from area universities the opportunity to network and share ideas and perspectives.

College Park: A Family Affair

You've heard the saying, "A family that plays together stays together." Mary Gibson, Resident Life administrative assistant, proves a family that plays together can also work together.

Gibson's mother, Elsie Matthews, and her two sisters, Joyce Taylor and Denise Albright, all work for the university. Although the four family members have worked at College Park together for over ten years, they agree unanimously that the shared university employment is not what has kept them a close knit family.

"We were always close," says Matthews. "We all used to carpool together," says Gibson. "But since I moved further away, now they only ride together. I kind of miss that interaction in the carpool though; we really had some good times."

Even after sharing the day in close proximity, the three sisters still visit their mother's house four times a week regularly and drop by almost every weekend for dinner.

Gibson started at College Park as a registrar's office clerk typist in 1969. Later she moved to housing in 1970 where she did payroll and some accounting. Now she works for resident life where she has more administrative duties.

"As a secretary, I did more typing than appointments," says Gibson. "I didn't have as much leeway then."

Her mother, who is a housekeeper in Easton Hall, came to the university in 1975 after Gibson suggested she apply for a position. By 1977, both her sisters were house-



From left to right: Denise Albright, Joyce Taylor, Mary Gibson, and Elsie Matthews

keepers in the dormitory high rises as well.

Because the four relatives work in diverse areas, each sees a different side of the university.

"They [my sisters and my mom] have more day to day contact than I do," says Gibson. "I just deal with the administrators. I see another side to the students that they don't see and vice versa."

Each agrees, however, that student interaction is the highlight of the job.

"The students are very nice and they treat me nicely," says Albright who is the youngest of the three sisters.

"One of the main reasons I'm on the campus today is because of students," says Gibson. "They have

fresh ideas and they're more open. I also think they have gotten more mature over the years. In 1969 the discipline was so harsh and they rebelled. But now [the university] does more counseling, and it has more places that can help students with their problems. I think the staff cares more about the residents."

Next year, Gibson's mother will be retiring. But one less family member will not change their routine.

"Unless she moves, we'll still visit," says Gibson. "I don't think that would change a thing."

Patricia Gay



Joseph S. Hayes



Charles F. Stubbs, Jr.



James E. Whitted

Physical Plant Honors Its Own

In back-to-back ceremonies in the Stamp Student Union late last month, the Department of Physical Plant paid tribute to its evening and day shift employees honoring them for service, attendance and outstanding performance during 1990.

The awards ceremony recognized those College Park employees who in 1990 demonstrated outstanding performance in grounds maintenance, steam distribution, water main and sewage system operation, street light security, computer room air conditioning, locksmithing and the dozens of other activities essential to keep the campus operating efficiently and effectively.

Three Physical Plant employees were presented with the Robert L. Hafer Award, the department's highest honor for meritorious service. The three are: Joseph S. Hayes, manager, evening shifts, Building Services; Charles F. Stubbs, Jr., working foreman, General Services; and James E. Whitted, working foreman, Area Maintenance.

The Hafer Award carries with it a plaque and savings bonds with a face value of \$400. Physical Plant

Director Frank Brewer made the presentations following a video tape production by the Flagship Channel that traced the history of the Hafer Award and featured personal recollections of the late Robert L. Hafer, the department director of operations by Physical Plant staff. Hafer died in 1979.

The retirement this month of William Blain Sines, Superintendent of the Central Heating Plant, also was announced. Sines has served the campus for 44 years.

In recognition of their exceptional accomplishments during the year, the crew of Zone 4 won the Outstanding Zone of the Year award. Zone 4 is known as the policing zone and responds to special campus emergencies and problems. The award was made for accomplishments in training, customer relations, special projects and morale-building.

Other employees singled out for special recognition included apprenticeship graduates Anthony Schweiss, Jacalyn Anderson, Michael Belshay, Ray Loftman, Dawn Buchanan and Ronald Olds, ABE/ESL Instructor Barbara Rein, Jean Whittenberg, Assistant Vice

President for Engineering and Architectural Services, and Harry Kriemelmeyer, Assistant Vice President for Facilities Planning and Construction. Kriemelmeyer, who is retiring, joined the university in 1967.

Service awards were presented to 93 Physical Plant employees, including Wilbert Powell, Leroy Blackwell, Donald R. Furr, Sr., and John H. Warner, Jr., who each have devoted 30 years of service to the university.

More than 100 employees were recognized with certificates for consecutive years of perfect attendance, including Theodore R. Allen, Percy Catchpole, Gordon E. Connors, and Thomas Saunders, each with ten year perfect attendance records.

Outstanding performance awards for 1990 were made by various Physical Plant divisions to 104 employees for their contributions to College Park.

Outlook salutes each of these valued members of the university community.

Tom Otwell

Historian and Philosopher of Science to Lecture

Robert Brandon, an acclaimed historian and philosopher of science at Duke University who has published extensively on evolutionary theory, will deliver a lecture entitled "Biological Order and Design in the Light of Contemporary Evolutionary Theory" April 10 at 8 p.m. at Montgomery Blair High School, 313 Wayne Avenue, Silver Spring. Brandon also will speak on "Theory and Experiment in Evolutionary Biology" April 11 at 4 p.m. in Room 1402 of the Chemistry Building. The lectures are part of a series co-sponsored by the Montgomery Blair Science Magnet Program, the Montgomery County Commission on the Humanities, the Maryland Humanities Council, Inc., and the College of Arts and Humanities. For more information, call 405-5691.

ARTS

Ferguson Explores the International Broadcasting Environment

During the Persian Gulf War, many leaders of nations around the globe said they followed the unfolding military events via the Cable News Network, admissions that illustrate some of the dramatic changes that have taken place in the international broadcasting environment over the past decade, says Marjorie Ferguson, associate professor of radio, television and film.

"The 1980s were a period of ferment in broadcasting," says Ferguson, an expert in international broadcasting policy and the cultural impact of new communication technologies. "When you think about how we've come to expect real-time, live television coverage of wars, revolutions and summit diplomacy, this is a potent symbol of what's been happening."

Shifts in the market and regulatory structures of broadcast systems in many countries, along with innovations in satellite, VCRs and cable technology that have affected the way in which broadcasts are made and distributed, have stimulated the changes, Ferguson says.

During the 1980s, the broadcasting systems in 12 out of 15 Western European countries shifted from public and semi-public monopolies to enterprises with more channels and more private ownership, Ferguson says.

With privatization came greater competition for audiences and greater interest in entertainment programming, according to Ferguson.

"In the Soviet Union, Latin America, Eastern Europe as well as Western Europe, audiences want game shows, soaps, old movies and sitcoms," says the scholar who came to the university from the London School of Economics in 1988.

Because of high domestic production costs, much of the world's entertainment programming is imported from the United States or bears a strong resemblance to the tried and true staples of American television, she says.

She notes, however, that concerns about the cultural impact of multi-national television fare are not particularly justified. There is little evidence to suggest that linguistic and cultural diversity is diminishing in the wake of television imports, she says.

The growth of global television markets in news as well as entertainment is matched by the trend to concentrated ownership by the small number of media corporations with the capital and know how to operate large broadcasting systems, Ferguson says. Such European media magnates as Great Britain's Robert Maxwell and Italy's Silvio Berlusconi continue to expand their operations in this environment.

Advances in cable and satellite technology have helped stimulate the shifts in ownership, market structures and audience demands that are part of the changing inter-

national broadcasting environment, Ferguson says.

The implications of these changes were displayed vividly during the Gulf War when technologically advanced broadcasters from around the world were able to establish real-time audio and visual links, often thousands of miles from their home audiences.

There is nothing new about the ability to offer distant, cross-national radio reports or television images to such a diverse audience. What is new from the vantage of 1991 is the instant distribution of those signals by satellite to so many countries via so many new distribution channels, Ferguson says.



Marjorie Ferguson

"Top Girls" Will Be Major Student Production

University Theatre's upcoming production of Caryl Churchill's comedy "Top Girls" will feature the talents of theatre students both on stage and behind the scenes.

Performances of "Top Girls" will be held April 9-14 and April 16-21 in the Pugliese Theatre.

Like most University Theatre productions, student actors will comprise the cast. Unlike most productions, however "Top Girls" will have graduate and undergraduate students directing the show and designing sets, lighting and costumes. Sharon Ammen, a doctoral student in theatre, will direct the production. Ammen, who is advised by Patti Gillespie, professor of theatre, is concentrating on feminist theatre and theatrical adaptations as part of her graduate work.

Two other graduate students in theatre will direct the scene and lighting design for the production. Bill Price will handle the scene design, and Michael O'Hara will be in charge of lighting design.

Shirley DuBois, an undergraduate



theatre major, will be the show's costume designer.

David Krebs, a faculty member, is the technical director.

"Top Girls" is a feminist play in which the main character celebrates a job promotion by hosting a fantasy dinner party for some of the great women in history.

"This play shows the fragmented images of what women are like today," Ammen says. "I hope that in the future, a woman can be professional, competent, nurturing, sensual, funny—a whole human subject."

For ticket information call 405-2201.

Israeli Piano Quartet to Perform on April 15

Founded in 1985 as a graduate ensemble of the renowned Jerusalem Music Center in Israel, the prize-winning Aviv Piano Quartet will present a concert for the College Park community on Monday, April 15 at 8 p.m. in the Tawes Recital Hall. The performance is free and open to the public.

The rising young Aviv Piano Quartet, whose members include Arnon Erez, piano; Hagai Shaham, violin; Yariv Aloni, viola; and Zvi Plesser, cello, is not just passing through College Park on a concert tour. The group has ties to the uni-

versity and is on campus regularly to be coached by the Guarneri Quartet.

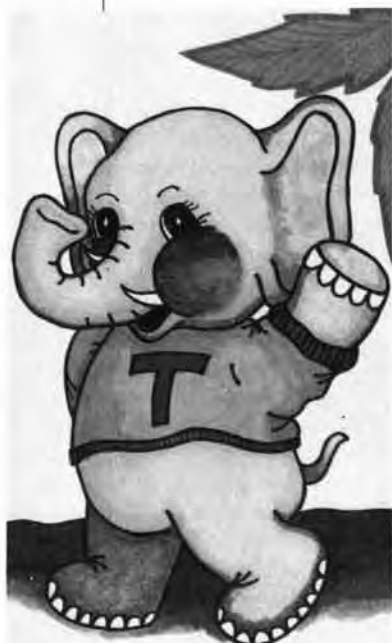
Cellist Zvi Plesser has also trained with music faculty member Evelyn Elsing. Featured as a soloist in the National Symphony Orchestra's young artist series this winter, he performed the Lalo Cello Concerto to high critical praise.

For further information call the Music Department's concert office at 405-5548.

Cornell Authority on Turbulent Flows to Speak

Philip Holmes, professor of theoretical and applied mechanics and of mathematics at Cornell University, will deliver the second in this spring's Systems Colloquia Series, Thursday, April 18 at 3 p.m. in Room 1100 of the Instructional Television building. Holmes will discuss "Unstable Fixed Points, Heteroclinic Cycles and Exponential Tails in Turbulence Production." The lecture is sponsored by the Systems Research Center.

Children's Book Series Addresses Problems of Young Children



In an effort to deal with the problems common to young children, Kenneth R. Greenberg, associate professor and director of the School Counseling program in the College of Education, has developed a series of books entitled, "The Adventures of Tusky and His Friends."

The books, which are intended to be read to children five to nine years old, are about a little elephant named Tusky, who, with his friend Packy, interact with a "professorial" owl named Hooty. Approximately 20 books are planned as part of the "Snuggle-Up" series.

"There is a need, today, for stories directed to young children that address the issues of values, morality, attitudes, and social expectations," says Greenberg. "The Tusky stories deal with these issues."

There is no series of picture

books designed expressly for young children that deals with such critical concepts as developing communication skills, positive and negative thinking, good judgment, trust, dealing with jealousy, how attitudes can be changed, the conscience, the importance of sharing, developing empathy, and acquiring self-esteem, says Greenberg.

At the end of each chapter Greenberg includes a number of discussion questions for the reader to ask the listener.

"These questions have been developed to motivate children to express their understanding of and feelings about the concepts and situations that have been cited in the story," says Greenberg. "The child is encouraged to engage in discussion with the reader and share his or her personal experiences."

The questions are both a teaching

device and a stimulus that enables the reader to reflect on and discuss the values contained within each story.

"It is expected that this will enhance the parent-child or teacher-pupil relationship and generate quality time between the reader and listener," says Greenberg.

Topics to be covered in the "Snuggle-Up" series include sibling rivalry, telling lies, adjustment and academic problems in school, understanding feelings, stealing, drug and alcohol problems, dealing with anger and aggression, concerns about sexuality, eating and sleeping problems, understanding death, improving relationships with peers, use of leisure and play, winning and losing games, keeping promises, and problems with parents.

Lisa Gregory

Researchers Achieve Breakthrough in Development of Microwave Amplifiers

Scientists in the Laboratory for Plasma Research at the university have achieved a major advance in the capabilities of high power microwave amplifiers.

This breakthrough, according to Victor Granatstein, the lab's director, may help lead to the eventual development of an electron-positron collider operating in the multi-TeV energy range.

Such a future collider is important because it would extend research capabilities beyond those of the \$8 billion Superconducting Super-Collider (a proton-antiproton collider) currently being constructed in Texas. The electron-positron multi-TeV collider would likely be built early in the 21st century. It would be driven by thousands of microwave amplifiers operating at a frequency near 20 GHz, each producing output power of at least several hundred megawatts in 100 nanosecond pulses (or equivalently, several tens of megawatts in 1,000 nanosecond pulses).

The Maryland research group has extended power capabilities in gyrotron amplifiers by a factor of 400 compared with previous results and has achieved 20 megawatt peak power in 1,000 nanosecond pulses at a frequency of 9.87 GHz.

Gyrotron amplifiers scale more favorably with frequency than other microwave tubes, and must now be considered a leading contender for driving the multi-TeV electron-positron collider. Work is beginning at Maryland on developing a gyrotron amplifier at 20 GHz.

Results of this work are described in a paper entitled "Efficient Operation of a High Power X-Band Gyrokystron," submitted to *Physical Review Letters*. The authors are Wesley Lawson, Jeff Calame, Bart Hogan, Peter Latham, Michael Read, Victor Granatstein, Martin Reiser and Charles Striffler. Lawson, Granatstein, Reiser and Striffler are members of the Department of Electrical Engineering faculty.



From left Victor Granatstein, Wes Lawson and Charles Striffler.

The gyrotron amplifier research is being supported by the Division of High Energy Physics of the U.S. Department of Energy.

Colwell Inducted Into Maryland Women's Hall of Fame



Rita R. Colwell

Rita R. Colwell, president of the Maryland Biotechnology Institute, was inducted into the Maryland Women's Hall of Fame during a March 5 ceremony in the Joint Legislative Hearing Room in Annapolis.

The award is sponsored by the Maryland Commission for Women and the Women Legislators of the Maryland General Assembly. It honors Maryland women who have made unique and lasting contributions to the economic, political, cultural and social life of the state and provides visible examples of

achievement for tomorrow's female leaders.

Colwell, a professor of microbiology, is active in national and international research and teaching. Under her leadership, the university's Sea Grant Program was designated a National Sea Grant College in 1983. Colwell holds a presidential appointment to the National Science Board and has authored or edited 12 books and hundreds of papers and articles.

Colwell also helped create the Maryland Biotechnology Institute, six centers of scientific excellence

encouraging innovation and commercial applications for biotechnology around the state.

Colwell also has helped her institute's Center of Marine Biotechnology (COMB) to earn a recent \$7 million grant from the U.S. Navy. She currently is working on establishing a permanent home for COMB at the proposed Christopher Columbus Center of Marine Research and Exploration, a \$200 million research and educational center planned for Baltimore's Inner Harbor.

Farrell Memorial Service Planned for April 22

A memorial service for Richard T. Farrell, associate professor of history and associate chair of the department, will be held on April 22 at 3 p.m. in Memorial Chapel. Contributions in memory of Professor Farrell, who died March 25, can be made to the Center for the Study of History in the history department.

Kudos to...

Pedro Barbosa (Entomology), **Stephen Leatherman** (Geography), and **Edward Redish** (Physics) for being elected fellows of the American Association for the Advancement of Science. The association describes a fellow as: "A member whose efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished."

Frank Joseph Shulman (Libraries, East Asia Collection) for the completion of a new bibliography, *Japan*, a volume in the "World Bibliography Series" published by Clio Press of Oxford, England. The new book provides a guide to some 1,900 academic and popular books and monographs published in English about Japan.

Donald Vannoy (Civil Engineering) for being named 1991 Engineer of the Year by the Engineering Society of Baltimore, which cited him for his sustained and considerable contributions to the advancement of his profession through excellence in teaching research and service.

Terry Zacker (Campus Activities) for being chosen Outstanding Panhellenic Advisor of the Northeast Region at the recent annual meeting of the regional Panhellenic association in Cherry Hill, New Jersey. The **College Park Panhellenic Council**, the governing body for campus sororities, also was named the region's best.

Mary Cothran (Office of Minority Student Education) for being honored as one of the Outstanding Black Women in Montgomery County, in a ceremony in Rockville on March 15.

Ivan Penn (junior, Journalism) for winning the annual Paul Berg *Diamondback* Scholarship for outstanding achievement and effort as a news-editorial staff member of the campus daily newspaper. Penn, the current editor-in-chief, will receive \$2,000. The scholarship is in memory of the late Paul Berg, an alumnus of the College Park campus, who before his death in 1989, was an assistant editor at *The Washington Post*.



Pedro Barbosa



Stephen Leatherman



Ivan Penn



Edward Redish

New Book Looks at Student Community Service and Values Development

Greig M. Stewart, assistant dean of the College of Journalism and affiliate assistant professor in the Counseling and Personnel Services Department, and Suzanne D. Mintz, assistant director of Experiential Learning Programs, have co-edited a new book focusing on the development of public service learning programs on college and university campuses.

The book, *Community Services as Values Education*, was published by Jossey-Bass Inc. as part of its New

Directions for Student Services series.

A third co-author, Cecilia I. Delve, directs the Volunteer and Public Service Center at Georgetown University.

"Integrating a values education into every aspect of the students' academic experience will serve to ensure a more advanced, and, one would hope, lifelong commitment to public service," they write.

The book introduces the idea of "service learning," a concept the

editors say is more than experience as a volunteer and different from structured college and university experiences such as internships or co-ops.

The editors say they hope the book will encourage increased involvement by, and provide concrete support for, student-affairs professionals, administrators, and faculty as they begin or continue to participate in public and community-service initiatives.

State's Economy Expected to Recover Later this Year

The Maryland economy is expected to recover as the national economy improves in the latter part of 1991, and the state should be on a healthy recovery path in 1992.

Those are the forecasts in a report by Mahlon R. Straszheim, professor and chair, and Lorraine Sullivan Monaco, instructor, in the Department of Economics. The report, "The Role of Service Employment in Maryland's Outlook," is the second in a series of working papers issued by the department.

The report is based on a computer model that uses data by

industry in Maryland and a national data bank and inter-industry model developed by INFORUM, the Interindustry Forecasting Project at the University of Maryland.

"Service sector employment grew at a 4.9 percent rate nationally in 1989-90, but by only 3.0 percent in Maryland," the report notes.

Following the current period of adjustment in the service sectors of the economy, Maryland's long-term economic advantages will reemerge during the recovery period, the College Park economists believe.

The service industry is the largest segment of Maryland's economy

employing 603,000 of the total 2,168,000 working Marylanders. Wholesale and retail trades employ 25 percent of the state's labor force.

"High real incomes relative to the nation, desirable environmental amenities, a growing population and work force, favorable public services relative to tax burdens, and proximity to Washington will all contribute to the state's recovery in the early 1990s. Real income in Maryland should again increase at a rate exceeding that of the rest of the nation," the report concludes.

CALENDAR

Gymnastic Exhibition to be Presented April 12 and 13

The University of Maryland Gymkana Troupe will present two performances for the College Park community, one on April 12 and the other on April 13. Both exhibitions will begin at 8 p.m. Tickets, which are \$4, will be available at the door. For further information about this unique and effective anti-drug gymnastic program, call Joseph Murray at 405-2566.



APRIL 8-17

8 MONDAY

Campus Recreation Services Intramural Wrestling, sign up today, 1104 Reckord Armory. Call 4-7218 for info.

Open Workstation Laboratory Dedication Ceremony: "Commute and Compute," 10-11 a.m., 0504 Parking Garage 2. Call 5-3038 for info.

Counseling Center Returning Students Program: "Assertiveness Workshop," today and April 15, 11 a.m.-noon, 2201 Shoemaker. Call 4-7693 for info.

Geology Seminar: "Phanerozoic Denudation History of the Southern New England Appalachians from Pressure Data," E-an Zen, Geology, 11 a.m., 0105 Hornbake. Call 5-2783 for info.

Special Lecture on the Environment: "Gaia: The Living Earth," Lynn Margulis, U. of Massachusetts, Amherst, 1 p.m., 1208 Zoo/Psych. Call 5-1897 for info.

Entomology Colloquium: "Regulation of a Metamorphosis-associated Protein by Juvenile Hormone," Grace Jones, U. of Kentucky, 4 p.m., 0200 Symons. Call 5-3912 for info.

Horticulture Seminar: "Control of Photosynthesis in Fruit Crops: Role of Stomata," J.A. Flore, Michigan State U., 4 p.m., 0128B Holzapfel. Call 5-4356 for info.

Computer Science Colloquium: "Program Restructuring for Fun and Profit," Michael Wolfe, Oregon Grad. Inst. of Science and Technology, 4 p.m., 0111 Classroom Bldg. Call 5-2661 for info.

Space Science Seminar: "Radio Absorption by the Intergalactic Medium and Non-Big-Bang Models of the Cosmic Background Radiation," Eric Lerner, Lawrenceville Plasma Physics, 4:30 p.m., 1113 Computer and Space Sciences. Call 5-4829 for info.

Wanderlust: "The Real World of Thailand," Rick Howard, 8 p.m., Hoff Theatre. Call 4-HOFF for info.

9 TUESDAY

Neuroscience Colloquium: "Neurogenesis in Adult Avian Brain as an Animal Model of Brain Self-Repair," Fernando Nottebohm, noon-1 p.m., 1208 Zoo/Psych. Call 5-6884 for info.

Zoology Seminar: "Genetic Considerations for Reintroduction of Guam Rails to the Wild," Susan Haig, Fish and Wildlife Service, Clemson U., noon, 1208 Zoo/Psych. Call 5-6949 for info.

Center for Teaching Excellence "Conversations about Teaching", keynote address followed by active dialogue, noon-1:30 p.m. (bring lunch), Maryland Room, Marie Mount. Call 5-3154 for info.

College of Engineering Job Fair, for students of all majors, summer, part-time, internship and permanent opportunities, noon-4 p.m., Grand Ballroom, Stamp Student Union. Call 4-7228 for info.

Entomology Colloquium: "Lost in the Prairie: Insect Host Finding in a Complex Environment," Patrice Morrow, U. of Minnesota, noon, 2242 Patterson. Call 5-3912 for info.

Danish Lecture: "Den 9, April 1940," P. M. Mitchell, Cornell U., 12:30-1:45 p.m., 2122 Jimenez. Call 5-4097 for info.

Physics Colloquium: "Electroweak Baryogenesis," Glennys Farrar, Rutgers U., 4 p.m., 1410 Physics. Call 5-5953 for info.

Career Development Center Pre-Consortium Panel: "After Graduation: How to Secure and Manage Your First Teaching Position in Tough Times," 5-7 p.m., 3121 Hornbake. Call 4-7226 for info.

University Theatre: "Top Girls," today-April 14 and 16-20, 8 p.m., Sunday matinees, April 14 and 21, 2 p.m., Pugliese Theatre. Call 5-2201 for info.

10 WEDNESDAY

Campus Recreation Services Team Horseshoes, sign up today, 1104 Reckord Armory. Call 4-7218 for info.

Counseling Center Research and Development Meeting: "Effects of Counselor as Audience on the Internalization of Depressed and Non-Depressed Self-Presentations," Anita Kelly, Counseling Center, noon-1 p.m., 0106-0114 Shoemaker. Call 4-7691 for info.

Noontime Seminar on Computers in the Arts and Humanities: "Megatrends in Humanities Computing," Glenn Ricart, Computer Science Center, noon-1:30 p.m., 1102 Francis Scott Key. Call 5-4337 for info.

Molecular and Cell Biology Seminar: "Molecular Basis of Drug Resistance in *Plasmodium Malariae*," Thomas Wellems, National Institute of Allergy and Infectious Diseases, 12:05 p.m., 1208 Zoo/Psych. Call 5-6991 for info.

Working Committee of the Asian American Association Introductory Meeting, 12:30-2 p.m., 0126 Reckord Armory. Call 5-2842 for info.

Foreign Policy Fellows Seminar: "A New Order in Africa?," W. Bediako Lamouche-Smith, chair, African American Studies, UMBC; panelists: W. Tina Semiti, Tanzania; Kayode Soremekun, Ile-Ife, 3:30 p.m., student lounge, Morrill Hall. Call 5-6353 for info.

Anthropology Lecture: "Women Factory Workers and the Korean Economic Miracle," Seung-Kyung Kim, Women's Studies, 3:30-5 p.m., 1114 Woods Hall. Call 5-1423 for info.

Distinguished Scholar-Teacher Lecture: "Emancipation and the Meaning of Freedom in 19th-Century America," Ira Berlin, History, 4 p.m., 2203 Art/Soc., reception following. Call 5-9353 for info.

Science, Technology and Society Lecture: "What's Next? SDI, Nuclear and Other High-Tech Weapons after the Cold and Gulf Wars," Herbert York, Institution on Global Conflict and Cooperation, U. of California, 4 p.m., 2309 Art/Soc. Call 5-5271 for info.

Committee on the History and Philosophy of Science Lecture: "Biological Order and Design in the Light of Contemporary Evolutionary Theory," Robert Brandon, Duke U., 8 p.m., Montgomery Blair High School auditorium, Silver Spring. Call 5-5691 for info.

University Theatre: "Top Girls," 8 p.m., Pugliese Theatre. See April 9 for details.

11 THURSDAY

Danish Lecture: "Denmark and Questions on Human Rights," Niels Dyrland, Minister-Counselor, Royal Danish Embassy, 12:30-1:45 p.m., 2122 Jimenez. Call 5-4097 for info.

Public Relations Council Meeting: "Excellence in PR and Communications Management," Laurie Grunig, 1:30-3 p.m., 1116 Journalism. Call 5-4629 for info.

Meteorology Seminar: "Lagrangian Transport Analysis and Turbulent Flow Prediction," Peter Bernard, Mechanical Engineering, 3:30 p.m., 2114 Computer and Space Sciences, reception at 3 p.m. Call 5-5392 for info.

Campus Senate Meeting, 3:30-6:30 p.m., 1026 Reckord Armory. Call 5-5805 for info.

History and Philosophy of Science Colloquium: "Theory of Evolution," Robert Brandon, Duke U., 4 p.m., 2283 Zoo/Psych. Call 5-5691 for info.

Reliability Engineering Seminar: "Some Practical Reliability Lessons Learned from Navy Aircraft Programs," Robert Tracas, Naval Air Systems Command, 5:15-6:15 p.m., 2115 Chemical and Nuclear Engineering Bldg. Call 5-3887 or 5-3883 for info.

Career Development Center Pre-Consortium Panel: "The Education of African American Males: A Paradigm for the 21st Century," Yolanda Coleman, coordinator/counselor, Project 2000, 5:30-7 p.m., 3121 Hornbake. Call 4-7226 for info.

Music Department Concert: Smithsonian Chamber Players with Evelyn Garvey, fortepiano, 7 p.m., Tawes Recital Hall. Call 5-5548 for info.

University Theatre: "Top Girls," 8 p.m., Pugliese Theatre. See April 9 for details.

12 FRIDAY

AAUW Published Women Luncheon, Rhonda Williams, Afro-American Studies, noon-1 p.m., Carriage House, Rossborough Inn, reservations required. Call 4-8015 for info.

Speech Communication Colloquium: "Persuasion in the Courtroom," Ronald Matlon, Towson State U., noon, 0147 Tawes. Call 5-6524 for info.

Black Faculty and Staff Association Seminar: "Wellness for the 1990s: A Way of Life," Marvin W. Scott, Kinesiology, noon-2 p.m., Maryland Room, Marie Mount. Call 4-7225 for info.

Mental Health Lunch 'n Learn: "Overview of Neuropsychological Testing," Dr. Anne Newman, National Rehabilitation Hospital, Washington, D.C., 1-2 p.m., 3100E Health Center. Call 4-8106 for info.

College of Business and Management and First National Bank of Maryland Research Colloquium: "Issue Size Choice and 'Underpricing' in Thrift Mutual-to-Stock Conversions," Haluk Unal, 1-2:30 p.m., 2102 Tydings. Call 5-2256 for info.

University Honors Program Lecture: "Cross-Cultural Communication," Alem Asres, English, 2 p.m., Honors Lounge, 0110 Hornbake. Call 4-0643 for info.

Curriculum Transformation Project Forum: "Difference in the Classroom: Making Changes in

the Undergraduate Curriculum," featuring panelists from 1990 Summer Faculty Development Institute, 2-4 p.m., 1139 Stamp Student Union. Call 5-6882 for info.

Music Department Lecture: "Performance Versus Critical Interpretation," Jerrold Levinson, 3 p.m., Tawes Recital Hall. Call 5-5548 for info.

Department of Art History and Archaeology Mid-Atlantic Symposium, co-sponsored by National Gallery of Art, today 5 p.m., 2309 Art/Soc.; tomorrow, morning and afternoon sessions, National Gallery of Art, Washington, D.C. Call 5-1479 for info.

Maryland University Club Wine Tasting Social, featuring Boordy, Catocin, and Elk Run Vineyards, hors d'oeuvres and informal conversation, 6-9 p.m., Rossborough Inn. Call 4-8012 for info and reservations.

Crossroads in Film, Cinema by and about Peoples of the African Diaspora, *Reassemblage*, 7 p.m., 2203 Art/Soc. Call 5-3809 for info.

University Community Concerts, Ars Nova, program TBA, 8 p.m., pre-concert seminar, 6:30 p.m., Adult Education Center, \$17 standard admission, \$14.50 students and seniors. Call 80-4239 for info.

University Theatre: "Top Girls," 8 p.m., Pugliese Theatre. See April 9 for details.

College of Health and Human Performance Gymnastic Exhibition, U. of Maryland Gymkana Troupe, today and tomorrow, 8 p.m., Cole Field House. Call 5-2566 for info.

13 SATURDAY

Language Center Foreign Language Instruction Committee Symposium, 9 a.m.-4 p.m., featuring four speakers and buffet lunch, Language House reception hall. Call 5-4025 for info.

University Community Concerts, The Shanghai Quartet, 8 p.m., pre-concert seminar, 6:30 p.m., Adult Education Center, \$17 standard admission, \$14.50 students and seniors. Call 80-4239 for info.

University Theatre: "Top Girls," 8 p.m., Pugliese Theatre. See April 9 for details.

14 SUNDAY

Artist Scholarship Benefit Concert: Guarneri String Quartet, 3 p.m., Tawes Recital Hall, \$10 standard admission; \$5 students and seniors. Call 5-5548 for info.

University Theatre: "Top Girls," 2 p.m. and 8 p.m., Pugliese Theatre. See April 9 for details.

15 MONDAY

Art Gallery Exhibition: "New Territory: Art from East Germany," today-April 26, The Art Gallery, Art/Soc. Call 5-2763 for info.

Counseling Center Returning Students Program: "Assertiveness Workshop," 11 a.m.-noon, 2201 Shoemaker. Call 4-7693 for info.

Chancellor's Commission on Women's Affairs Resource Fair: "You and Your Aging Relatives: Resources and Support Systems," 11 a.m.-2 p.m., Colony Ballroom, Stamp Student Union. Call 5-1210 for info.

Center for International Extension Development Colloquium: "Increasing the Relevance of Agricultural Research and Extension: Institution-Building in Third World Universities," Louise G. White, George Mason U., noon (bring lunch) 0115 Symons Hall. Call 5-1253 for info.

Department of French and Italian Lecture: "Dante's Four Worlds," Anthony Oldcorn, Brown U., 3 p.m., Language House reception hall. Call 5-4024 for info.

Computer Science Colloquium: "Complexity as a Scientific Metaphor," Christos H. Papadimitriou, U. of California at San Diego, 4 p.m., 0111 Classroom Bldg. Call 5-2661 for info.

Music Department Concert: Aviv String Quartet, 8 p.m., Tawes Recital Hall. Call 5-5548 for info.

16 TUESDAY

Personnel Services Employee Development Seminar: "Understanding FAS," 9 a.m.-noon, 112 Adult Education Center. Call 5-5651 for info.

Center for Global Change Colloquium, Mark Sagoff, Philosophy and Public Policy, noon-1:30 p.m. (bring lunch), 1137 Stamp Student Union. Call 80-4165 for info.

Center for Teaching Excellence CORE Faculty Workshop: "Cooperative Learning II," 3-5 p.m., Maryland Room, Marie Mount. Call 5-3154 for info.

Classics Department Lecture: "The Trickster's Son: The Language of Oral Epic and the Characterization of Telemachus," Richard Martin, Princeton U.; response, Dale Sinos, Howard U., 4 p.m., 2309 Art/Soc. Call 5-2013 for info.

Dance Department Performance, featuring student works, today-April 19, 8 p.m., Dorothy Madden Studio/Theater, Dance Bldg. Call 5-3180 for info.

University Theatre: "Top Girls," today-April 20, 8 p.m., matinee, April 21, 2 p.m., Pugliese Theatre. Call 5-2201 for info.

17 WEDNESDAY

Curriculum Transformation Project Lecture/Performance, featuring Meriam Rosen, Dance Dept., with Improvisations Unlimited, 10 a.m., Dorothy Madden Studio/Theater, Dance Bldg. Call 5-6882 for info.

Counseling Center Research and Development Meeting: "New Directions in Honors," Terry Parssinen, University Honors Program, noon-1 p.m., 0106-0114 Shoemaker. Call 4-7691 for info.

Graduate School Distinguished Lecturer: "The Evolution of the 'Authentic' Performance Movement," Christopher Hogwood, Academy of Ancient Music, London, 3:30 p.m., 2203 Art/Soc. Call 5-4258 for info.

Foreign Policy Fellows Seminar: "Asia's Changing Relations with the U.S.," Melanie Billings-Yun, chair, Center for International Security Studies; Danilo Coronacion, senior special assistant to foreign secretary Raul Maglapus, 3:30 p.m., student lounge, Morrill Hall. Call 5-6353 for info.

University Theatre: "Top Girls," 8 p.m., Pugliese Theatre. See April 16 for details.

* Admission charge for this event. All others are free.